

5-11-1989

Washington University Record, May 11, 1989

Follow this and additional works at: <http://digitalcommons.wustl.edu/record>

Recommended Citation

"Washington University Record, May 11, 1989" (1989). *Washington University Record*. Book 481.
<http://digitalcommons.wustl.edu/record/481>

This Article is brought to you for free and open access by the Washington University Publications at Digital Commons@Becker. It has been accepted for inclusion in Washington University Record by an authorized administrator of Digital Commons@Becker. For more information, please contact engeszer@wustl.edu.



Hawaii bound: Diane Woepke, maintenance coordinator, is the winner in the drawing for a seven-day Hawaiian vacation for two in the Hilltop Campus Cost-Savings Campaign, in which employees submitted ideas to improve programs, enhance revenue and save costs at the University. Woepke's name was drawn during an assembly for the 123 employees who submitted 287 ideas during the campaign, which began in October 1988 and concluded in December 1988. During the recent assembly in Simon Hall auditorium, employees whose ideas result in confirmed monetary savings for the University received awards valued at 10 percent of the confirmed gross savings in the first year. Woepke, who has worked at the University for almost 15 years, plans to take her trip in December "when it will be very cold here — I hope." Still to be announced is the grand prize — a trip for two to Europe and a reserved complimentary parking spot on campus for a year — which will be awarded to the employee who submitted the top cost-savings idea.

University will award seven honorary degrees

Washington University will award seven honorary degrees at its 128th annual Commencement ceremony, which begins at 8:30 a.m. on Friday, May 19, with the traditional academic procession to Brookings Quadrangle. There are 2,300 degree candidates. Of the candidates, 1,200 are undergraduate students and 1,100 are graduate students.

The Commencement speaker, Henry E. Hampton, will receive a doctor of humanities degree. The six other honorary degree recipients are: Kenneth J. Arrow, Ph.D., economist; John B. Ervin, Ed.D., educator; Helen Frankenthaler, artist; Seymour S. Kety, M.D., scientist; Howard A. Schneiderman, Ph.D., research administrator; and Sondra J. Stang, author/editor.

Hampton, who earned a bachelor's degree in premed and English literature from Washington University in 1961, was executive producer of "Eyes on the Prize: America's Civil Rights Years (1954-1965)," a six-part documentary series that aired nationally on PBS beginning in January 1987. The award-winning series chronicled the major events that followed the 1954 Supreme Court ruling that outlawed segregation in public schools and concluded with the passage of the Voting Rights Act in 1965.

Hampton had witnessed and written about the civil rights movement in the mid-1960s. After discovering how influential the media could be in effecting social change, and with a vision of producing films that would generate change in the hearts of viewers, Hampton founded Blackside Inc. in 1968.

In his 20 years as president of Blackside, Hampton has produced or been responsible for more than 50 major films and media projects. He currently is finishing work on a second "Eyes on the Prize" program. Tracing the civil rights movement from 1965 to 1980, the eight-part series will air on PBS in January 1990.

Arrow, Joan Kenney Professor of Economics and professor of operations research at Stanford University, will receive a doctor of laws degree. Arrow, whose contributions to general

equilibrium theory have been called "the most important work in economics in the last 40 years," was awarded the Nobel Memorial Prize in Economic Science in 1972.

Considered one of the fathers of operations research, Arrow has done fundamental work in decision making under uncertainty and the role of security markets, as well as applied work in the areas of learning-by-doing and the economics of insurance. He played a significant role in the development of the area of economics of organizations, and his work established the basis for the entire field of information economics.

Arrow first joined the Stanford faculty in 1949. He moved to Harvard in 1968, where he was professor of economics and the James Bryant Conant University Professor from 1974 until 1979. He has held the Kenney professorship at Stanford since 1979.

Ervin, nationally recognized educator and champion of equal

opportunity in education, will receive a doctor of humanities degree. Ervin was dean of the School of Continuing Education and Summer School at Washington University from 1968 to 1977 and was vice president of the Danforth Foundation, a national philanthropic education organization, from 1977 until his retirement in 1986.

Ervin is past president of the National University Extension Association and was appointed by both Presidents Ford and Carter to the National Advisory Council on Extension and Continuing Education, for which he served as chairman from 1978-79. Ervin has been active in dozens of community and national professional organizations, including the White House Conference on Education and the Regional Commerce and Growth Association.

In 1986, Washington University established the John B. Ervin Scholarship Program in his honor to provide

Continued on p. 2

Richard Davis is named new director of the history of freedom center

Richard W. Davis, Ph.D., professor of history at Washington University, has been appointed director of the University's Center for the History of Freedom, effective July 1, according to Martin H. Israel, Ph.D., dean of the Faculty of Arts and Sciences.

Davis has been associate director of the center since its inception in 1986. The goal of the center is to produce a multi-volume history of modern freedom. The project is expected to take 25 years and is the first study of this magnitude.

"Richard Davis has an international reputation as a scholar of British history, excellent administrative skills, and strong dedication to the success of the history of freedom project," says Israel. "I am looking forward to working with him as director."

Davis replaces J. H. Hexter, Ph.D., John M. Olin Professor of the History of Freedom and founding director of the center, who will continue to play an active role in the center and to hold

the Olin chair in the History of Freedom.

"Jack Hexter's vision is responsible for the creation of the center and the history of freedom project. I am glad that he will continue to participate vigorously in the work of the center," says Israel.

Davis joined the University faculty in 1969 and served as chairman of the



Richard W. Davis

history department from 1974 to 1977. He earned his bachelor's in 1957 from Amherst College and his master's and doctoral degrees in 1958 and 1964 from Columbia

University. He earned the degree of master of letters from the University of Cambridge in 1962. All four degrees are in history.

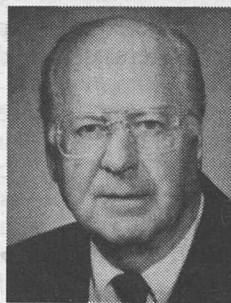
Boatmen's endows \$1 million chair in business school

Boatmen's Bancshares Inc. has endowed a professorship at Washington University in honor of Donald N. Brandin, retiring chairman of the bank holding company.

The special academic position, to be known as the Boatmen's Bancshares Professorship of Banking and Finance, will be instituted at the John M. Olin School of Business at Washington University. The endowed chair will help promote academic research and study among business school students in the field of banking and finance. An endowment of \$1 million provided by Boatmen's will permit the School of Business to name a distinguished scholar to the special chair. The recipient of the Boatmen's Bancshares Professorship will be named at a later date.

Chancellor William H. Danforth stated, "We are particularly pleased to welcome the Boatmen's Bancshares Professorship of Banking and Finance in honor of Donald N. Brandin. Don has been a strong supporter of Washington University and the School of Business, and this endowed chair is a fitting tribute to the skill with which he developed Boatmen's into one of the major 'super-regional' bank holding companies. We are pleased to promote higher education in banking and finance in Don's name at Washington University, which Don has served with distinction as a trustee."

Andrew B. Craig III, president and chief executive officer of Boatmen's



Donald N. Brandin

Bancshares, commented, "We are extremely pleased to establish this professorship in honor of Don Brandin, who devoted 33 years of outstanding service to Boatmen's. When he became chairman and chief executive officer in 1973, Boatmen's was a small St. Louis bank with only \$500 million assets. Today, upon Don's retirement, Boatmen's is one of the nation's top 50 bank holding companies."

The endowment for the professorship will be funded to Washington University by Boatmen's Charitable Trust over the next five years.

Brandin joined the Boatmen's National Bank of St. Louis in 1956 as a vice president. He became senior vice president in 1967, president in 1971, and chairman and chief executive officer of the bank and the holding company, Boatmen's Bancshares Inc., in 1973. On his retirement as chairman, Brandin will remain a member of the holding company's board of directors.

Brandin is president of the Federal Advisory Council and a former director of the International Financial Conference and the Association of Reserve City Bankers. He is a director of Laclede Gas Co. and Sigma-Aldrich Corp.

Brandin has been active in a large number of civic organizations in St. Louis, including Civic Progress, of which he is chairman. He has been a member of the University's Board of Trustees since 1979. His board term expires this month.

Robert L. Virgil, D.B.A., dean of the John M. Olin School of Business, commented, "This professorship is a tribute to the standards of excellence that Don Brandin set for Boatmen's, and we believe it will enhance the reputation of the School of Business for advanced research and study in the field of banking and finance."



Outstanding service: Viktor A. Hamburger, Ph.D., (right) received Washington University's prestigious William Greenleaf Eliot Society Award for 1989 from Stanley L. Lopata, president of the society, during a dinner held at the Washington University Athletic Complex. Hamburger, the Edward Mallinckrodt Distinguished University Professor Emeritus of Biology at Washington University, was presented with the silver replica of the sculpture "The Search," designed by Heikki Seppa of the School of Fine Arts. Hamburger, a member of the University faculty since 1935, was honored for his outstanding service to the University. Referred to as "one of the supreme biologists of our time," Hamburger is known worldwide for his pioneering research in the field of developmental neurobiology.

Scientists nationwide to gather here for computer labs' 25th anniversary

Distinguished scientists from throughout the United States will present a day-long symposium May 12 to mark the 25th anniversary of the Biomedical Computer Laboratory (BCL) and the Computer Systems Laboratory (CSL) at Washington University.

The symposium, "Computers in Biomedicine: Issues and Challenges," will be held from 8 a.m. to 3:30 p.m. in Simon Hall auditorium.

The keynote address will be delivered at 12:30 p.m. by William F. Raub, Ph.D., deputy director of the National Institutes of Health (NIH), whose Division of Research Resources has funded the BCL and CSL programs since their inception.

Raub's speech, titled "Biomedical Computing: Some Critical Opportunities and Some Opportune Crises," will focus on the benefits and challenges presented to scientists by their increasing use of computer technology such as high-performance microprocessors, personal workstations, and networking. These tools are crucial in biomedicine, Raub says, and especially so in physical biology, neuroscience, mapping and sequencing the human genome, and elucidating the human immune system.

Other symposium participants will discuss topics such as brain exploration with positron emission tomography (PET); diagnosing the risk of osteoporosis with ultrasound; molecular modeling and drug design; computing and molecular genetics; digital hearing aids; and micropipelined computer systems.

BCL was established in 1964 under the leadership of Jerome R. Cox Jr., Sc.D., the Harold B. and Adelaide G. Welge Professor of Computer Science in the School of Engineering and Applied Science. Cox also is chairman of the computer science department and professor of biomedical computing and biomedical engineering. At about the same time, a separate laboratory that later became CSL was established. The laboratories have had close ties with the Departments of Computer Science and Electrical Engineering, as well as with most departments of the School of Medicine.

The BCL program emphasizes development of new applications of

laboratory computing, especially those that require strong coupling of the computer to its environment. Early work included projects in radiation treatment planning, nuclear medicine, electrocardiographic rhythm analysis, systems for monitoring intensive care patients, and analysis of CAT scan data.

The current research program emphasizes quantitative biomedical imaging and the development of computing and networking tools to support these projects. Application areas include molecular genetics, PET imaging, electron microscopic autoradiography, and optical sectioning microscopy.

BCL is directed by Lewis J. Thomas Jr., M.D., associate professor of biomedical computing, biomedical engineering, anesthesiology, and cell biology and physiology.

The CSL program has concentrated on the development of high-performance computer systems, specialized for challenging applications, and the improvement of methods for designing and building such systems. Current research is directed toward the development of theory and design tools for highly parallel computer systems, with applications in areas such as drug design and PET image processing.

CSL is directed by Charles E. Molnar, Sc.D., professor of biomedical computing, computer engineering, and cell biology and physiology.

BCL and CSL were joined in 1984 to form the Institute for Biomedical Computing (IBC), which spans computing research activities at both the School of Medicine and the School of Engineering and Applied Science. The institute was established to continue the development and application of advanced computing and engineering technology in biomedical science.

The merger also provided a new academic status that permits faculty members to have a primary appointment in IBC. The organization of additional IBC components is under way.

The IBC is directed by Molnar, with Thomas as its associate director.

The symposium is free and open to the public. For more information, call 362-2135.

Honorary degrees — continued from p. 1

full-tuition scholarships for talented black high school students. Currently, 22 students attend Washington under the merit-based scholarship program.

Frankenthaler, renowned American painter, will receive a doctor of fine arts degree. The recipient of numerous achievement awards, Frankenthaler was at the forefront of a trend in the early 1960s in American painting moving from abstract expressionism to what is now known as color-field painting.

In addition to her numerous one-woman exhibitions around the world, Frankenthaler's paintings are in the permanent collections of most major museums in the country. Her work also is in public collections worldwide.

She has been the subject of several films, including "Frankenthaler: Toward a New Climate," produced and directed by Perry Miller Adato in 1978 as part of a seven-part series on women in art. The film won first prize in the fine arts category of the 1979 American Film Festival.

Kety, senior scientist in the Division of Intramural Research Programs at the National Institute of Mental Health, will receive a doctor of science degree. Kety's first major scientific contribution was the development of a safe quantitative technique for measuring the circulation and metabolic function of the human brain. This technique was then productively applicable to many physiological and disease states, including both neurological and psychiatric illnesses.

Kety's insistence upon quantitative techniques in a field where this goal seemed unattainable led to the establishment of an entire specialized field of metabolic neurobiology, with both basic science and clinical branches that are moving rapidly forward. His work laid the foundation for the modern PET scanner, which has made it possible to safely measure local circulation and metabolic functions of high complexity in normal humans and in patients with serious diseases of the nervous system.

He later became interested in the significance of genetic factors in major psychiatric illnesses. He led a group that established there is a powerful genetic factor in the cause of schizophrenia.

Schneiderman, chief scientist and senior vice president of research and development of Monsanto Co. and adjunct professor of biochemistry at Washington University School of

Medicine, will receive a doctor of science degree. Schneiderman is recognized internationally for creating and promoting alliances between research universities and American industry to solve important societal and commercial problems.

A founding member of the Council of the Government-University-Industry Research Roundtable of the National Academy of Sciences, Schneiderman has led Monsanto and Washington University in the development of one of the most powerful university/industry research programs. This alliance has created a sound model for similar arrangements both in the United States and abroad.

Schneiderman, who is serving a six-year presidential appointment to the National Science Board, also is a leader in the development of America's biotechnology industry.

Stang, adjunct professor of English at Washington University, will receive a doctor of letters degree. Now considered the world authority on author Ford Madox Ford, Stang has spent more than 20 years of her life attempting to restore the previously slighted writer to his rightful status in modern literary history.

Stang has overseen the publication of five new volumes on Ford in the past 11 years, including the 1977 *Ford Madox Ford* and the 1981 *The Presence of Ford Madox Ford*. Along with Solon Beinfeld, Ph.D., associate professor of history at Washington University, Stang edited the recently released *A History of Our Own Times*, Ford's previously unpublished volume depicting the shift of values and power between 1870 and 1895.

In what has been called a "Ford Madox Ford revival," Stang has served an advisory role in reissue programs taking place in both the United States and England of Ford's lesser-known novels and other books.



Kenneth J. Arrow



John B. Ervin



Helen Frankenthaler



Henry E. Hampton



Seymour S. Kety



Howard A. Schneiderman



Sondra J. Stang

RECORD

Editor: Susan Killenberg, 889-5254,

Campus Box 1070; P72245SS at WUVMC

Assistant editor: Jill Weber, 889-5235,

Campus Box 1070; P72245JW at WUVMC

Editor, Medical Record: Joni Westerhouse,

362-8257, Medical School Campus Box 8065;

C72245JW at WUVMC

Contributing writers: Debby Aronson, Debra

Bernardo, Joyce Bono, Tony DiMartino, Gerry

Everding, Tony Fitzpatrick, Fran Hooker and

Carolyn Sanford

Photographers: Joe Angeles, Tom Heine,

David Kilper and Herb Weitman

Record (USPS 600-430; ISSN 1043-0520),

Volume 13, Number 31/May 11, 1989. Published

weekly during the school year, except school

holidays, monthly during June, July and August,

by News and Information, Washington

University, Box 1070, One Brookings Drive,

St. Louis Mo. 63130. Second-class postage paid

at St. Louis, Mo.

Address changes and corrections:

Postmaster and non-employees: Send

address changes to: Record, Washington

University, Box 1070, One Brookings Drive,

St. Louis, Mo. 63130.

Hilltop Campus employees: Send to: Person-

nel Office, Washington University, Box 1184,

One Brookings Drive, St. Louis, Mo. 63130.

Medical Campus employees: Send to: Payroll

Office, Washington University, Box 8017,

660 S. Euclid, St. Louis, Mo. 63110.

NOTABLES

Garland E. Allen, Ph.D., professor of biology, spoke on "Philosophical Crossroads and Controversies in Twentieth-century Evolutionary Theory: Dialectical Materialism in the Work of Ivan I. Schmalhausen" at the April 18 conference on the present state of evolutionary theory at the Wistar Institute in Philadelphia. On April 21, Allen provided summary commentary at a conference on "Ideology in Science." The conference, held at Harvard University, was sponsored by the Fidia Corp. of Italy. In May, Allen will present a paper, titled "History and Evolutionary Biology: Science as History and History as Science," at the Spring Systematics Symposium sponsored by the Field Museum of Natural History in Chicago. He will serve as visiting professor of the history of science at Harvard University during the fall semesters of 1989 and 1990.

H. Kathleen Cook, a doctoral candidate in the Department of Anthropology, is one of 13 students from 11 U.S. graduate schools to receive a 1989 Rural Policy Fellowship administered by the Woodrow Wilson National Fellowship Foundation in collaboration with the Rural Economic Policy Program of the Aspen Institute for Humanistic Studies. The competitive fellowships provide up to \$18,500 plus tuition for 12 months of full-time research and writing. All of the 1989 fellows are engaged in writing doctoral dissertations on issues relating to rural economies and communities in the United States. Cook's dissertation is titled "Political Entrepreneurs and Economic Revitalization: A Comparative Study of Two Missouri Towns."

Thomas C. Fox, Ph.D., assistant professor of Germanic languages and literatures, received a grant from the German Academic Exchange Service (DAAD) to pursue research during May and June in Bonn, Dortmund and West Berlin. In July he will participate in a three-week seminar for foreign Germanists at the Humboldt University in East Berlin.

Joseph D. Ketner II, director of the Gallery of Art, chaired a session on "Important Recent Acquisitions of Midwestern Museums" at the 16th annual meeting of the Midwest Art History Society, held March 30-April 1 at the University of Missouri-Columbia. At the same meeting, **Mark S. Weil**, Ph.D., professor of art history and archaeology, chaired a session on "Baroque Art." During Weil's session, **David Butler**, a graduate student in art history, presented his paper on "Bernini's Fountain of the Four Rivers."

Theodosios P. Korakianitis, Sc.D., assistant professor of mechanical engineering, received the Ralph R. Teetor Educational Award from the Society of Automotive Engineers (SAE). As part of the award, he was a guest of the SAE at the 1989 Congress and Exposition in Detroit, where he was the guest of honor at numerous banquets, luncheons and receptions. He also received a plaque at the May 9 St. Louis SAE meeting. SAE's purpose for these activities is to establish closer links between academia and industry by recognizing select engineering educators for their "contributions in preparing future engineers to meet the challenges that face society."

Paul Michael Lutzeler, Ph.D., professor of German and comparative literature and director of the Western European Studies Program, recently has published two volumes of the critical edition of the works of the German romantic author Achim von

Arnim with the Deutsche Klassiker Verlag. He delivered lectures on German literature since 1945 during a symposium on contemporary West Germany at New York University and on Heinrich Mann and the idea of Europe during an international Heinrich Mann symposium in Lubeck, West Germany.

Howard Nemerov, Edward Mallinckrodt Distinguished University Professor of English and the nation's poet laureate, was honored March 31 by the National Endowment for the Arts and by poets, critics, students and other admirers in a ceremony at the Folger Shakespeare Library in Washington, D.C. The tribute was held in conjunction with a two-day conference commemorating the 20th anniversary of the Folger library's poetry program. The conference was titled "On History's Doorstep: The Role of Poetry in Society."

Robert L. Pierce, Ph.D., associate professor of social work, received a grant for 1988-1991 from the National Institute of Mental Health to establish a clinical training program for minority mental health social workers. In April he trained child care staff in recognition and interventions in child sexual abuse cases for Annie Malone Children's Home. He also presented a paper on "Juvenile Sex Offenders: A Follow-Up Study" at the National Symposium on Child Victimization, held in Anaheim, Calif.

Claudia Rousseau, Ph.D., assistant professor of art history, presented a paper on "*Orlando Furioso* and Dosso's *La Maga*" at the American Association for Italian Studies national conference, held in Lowell, Mass. She also chaired a session titled "Astrology and Prophecy in Sixteenth-century Art and Literature," and was appointed a member of the association's electoral committee during the conference.

Michelle Sauther, a doctoral candidate in anthropology, presented her paper on "Reproductive Behavior of Free-ranging *Lemur catta* at Beza Mahafaly Reserve, Madagascar" at the American Association of Physical Anthropologists meeting, held April 4-9 in San Diego, Calif. The paper is based on her 13-month study of the prosimian primate *Lemur catta* in Madagascar and provides new information on mating behavior and on female behavior during labor. Sauther also has received the prestigious American Fellowship from the American Association for University Women. The stipend will be used for her final doctoral year.

Peter C. Shaw and **Jean L. Shultz**, University College graduate students and candidates for the master of arts degree in international affairs, will have articles published in the inaugural issue of Third World in Perspective, a new interdisciplinary refereed journal. Shultz co-authored the article "Bhopal Remembered." Shaw's article is on "Joint Business Ventures in East Asia: A Comparison of Case Studies."

Have you done something noteworthy?

Have you: Presented a paper? Won an award? Been named to a committee or elected an officer of a professional organization? The Washington University Record will help spread the good news. Contributions regarding faculty and staff scholarly or professional activities are gladly accepted and encouraged. Send a brief note with your full name, highest-earned degree, current title and department along with a description of your noteworthy activity to Notables, Campus Box 1070, or by electronic mail to p72245SS at WUVMC. Please include a phone number.

Math team earns top honors

A team of three undergraduate students from Washington University shared top honors with teams from California Institute of Technology, Pasadena, and California Polytechnic State University, San Luis Obispo, in the 1989 Mathematical Contest in Modelling, held Feb. 24-26.

The Washington University team, comprising sophomore Thomas Fields and juniors David Krasnow and Kevin Ruland, was awarded an Outstanding honor for their solution to a classification problem and their writing of a 25-page analysis of their solution. Papers were submitted from 143 universities and colleges nationwide; 212 teams competed. Awards range (in descending order) from Outstanding to Meritorious to Honorable Mention.

Another Washington University team of seniors John Miller and David Sickman and junior Michael Meusey won Meritorious honors along with teams from 27 other institutions.

Hiroaki Mukai, Ph.D., professor of engineering and applied science in the Department of Systems Science and Mathematics, served as faculty adviser.

"We are very proud of our students and their results," says Mukai. "The Washington University teams went head-to-head with the best undergraduate science and mathematics minds in the country and came out exceptionally well."

Mathematical modelling — a rapidly expanding mathematical field — is a way of analyzing a physical system and drawing useful conclusions through modeling. The system ranges from artificial to natural — the lift of an aircraft wing or the flow of blood

through arteries, for instance. The model allows scientists the opportunity to make inferences without having the real thing at their disposal.

The contest, sponsored by Salisbury State University, Claremont Colleges, the Operations Research Society of America and the Society for Industrial and Applied Mathematics, has been held for the past five years. Teams are given their choice of two problems and a full weekend to solve the problem and write up a report of their analysis. Team members may consult only each other during the contest and may use computers, software packages, libraries or any other inanimate sources. In addition, their solution paper must be typed.

The top honors Washington team developed a method of classifying two types of midges — a small fly. As givens, they knew the characteristics of two species of midges and 15 examples of midges. They developed their solution through the use of a neural network — a computer model that mimics the thought processes of the human brain.

According to team member Ruland, number-crunching was not the hardest part of the contest. "We developed our strategy within the first three hours of getting the problem," he says. "Writing up our results and getting them mailed off with a post mark before midnight Monday proved to be the toughest part. We made it with 20 minutes to spare."

The team will receive a bronze plaque that will join two others from 1985 and 1986 in the systems science and mathematics department office.

Student Life wins national, state awards

Student Life, Washington University's student newspaper, recently won both national and statewide awards for excellence.

The newspaper received first place with special merit honors in the American Scholastic Press Association's (ASPA) Scholastic Newspaper Awards. It was one of only 10 in the national association to earn top honors, ranking with the Tufts Observer and the College of William and Mary Flat Hat. They received top honors in the category of schools with enrollment of 2,501 or more students.

An ASPA judge referred to Student Life as an "excellent publication" that shows "a tremendous amount of time,

energy and talent on the part of its staffers, photographers and writers."

In addition, for the first time, Student Life won the Missouri Collegiate Newspaper Association award for being Missouri's top college newspaper for schools of comparable size. The newspaper finished ahead of six other schools in its class.

Co-Editor-in-Chief Frederic Frommer, a graduating senior, said, "I think the awards are impressive because we don't have a faculty adviser like the other papers do. We're really self-sufficient in that sense. We learn by hands-on experience." The other 1988-89 Co-Editor-in-Chief is Edward Palattella, also a graduating senior.

Graduate study abroad competition opens

The U.S. Information Agency and the Institute of International Education have opened the 1990-91 competition for Fulbright grants and other grants for graduate study abroad in academic fields and for professional training in the creative and performing arts.

"Now is the time for interested students to inquire and begin work on the application," urges Sara Epstein, Fulbright program adviser at Washington University. "Developing a strong proposal, gaining language fluency, and establishing contacts abroad take time and are very important to a candidate's success."

The purpose of these grants is to increase mutual understanding between the people of the U.S. and other countries through the exchange of persons, knowledge and skills.

Fulbright grants are available for study or research. Travel grants are available to selected countries to supplement maintenance awards from other sources that do not provide funds for international travel or to supplement personal funds.

For brochures, application forms and more information, contact Epstein at 889-6355. Her office is in Room 106 January Hall. The application deadline is Sept. 29, 1989.

Scholar grants

The Council for International Exchange of Scholars has opened the competition for the 1990-91 Fulbright grants in research and university lecturing abroad. The awards include approximately 1,000 grants for periods ranging from three months to a full academic year.

There are openings in more than 100 countries, and the opportunity for multicountry research exists in many regions.

Fulbright awards are granted in virtually all disciplines, and scholars in all academic ranks are eligible.

For applications or information, contact the Council for International Exchange of Scholars, 3400 International Drive, Suite M-500, Washington, D.C., 20008-3097; (202) 686-7866.

CALENDAR

May 11-20

LECTURES

Thursday, May 11

9 a.m. Oral Examination for the Doctoral Degree for Paul Chesis, Dept. of Radiology. Dissertation title: "Synthesis and Characterization of Positron-emitting Ligands for the Opioid Receptor System." 561 Louderman Hall.

11 a.m. Oral Examination for the Doctoral Degree for Edwin Silverman, Dept. of Biostatistics. Dissertation title: "Variability of Pulmonary Function in Alpha 1-Antitrypsin Deficiency: Epidemiology and Quantitative Genetics." 10064 Clinical Sciences Research Bldg.

Noon. 36th Annual Alpha Omega Alpha Lecture, "The Mapping and Sequencing of the Human Genome," Maynard V. Olson, prof., WU Dept. of Genetics. Clopton Amphitheatre, 4950 Audubon.

2 p.m. Dept. of Pathology Special Seminar, "Possible Mechanisms of Insulin Action," Leonard Jarett, Depts. of Pathology and Laboratory Medicine, U. of Pennsylvania School of Medicine. Erlanger Aud., McDonnell Medical Sciences Bldg.

3 p.m. Oral Examination for the Doctoral Degree for Christopher Allan Phillips, Div. of Biology and Biomedical Sciences. Dissertation title: "Breeding Pond Fidelity, Population Structure and Phylogeography of the Spotted Salamander." 322 Rebstock.

4 p.m. Dept. of Pharmacology Twelfth Oliver H. Lowry Lecture, "How Cytolytic T Cells Destroy Target Cells," Herman N. Eisen, MIT. Moore Aud., N. Bldg., 4580 Scott Avenue.

Friday, May 12

8 a.m.-3:30 p.m. School of Medicine and School of Engineering and Applied Science Institute for Biomedical Computing Symposium, "Computers in Biomedicine: Issues and Challenges." Speakers include: Keynoter William F. Raub, deputy dir., National Institutes of Health, "Biomedical Computing: Some Critical Opportunities and Some Opportunity Crises"; Marcus E. Raichle, WU prof. of neurology, "Developing a Functional Anatomy of the Human Brain With Positron Emission Tomography"; Maynard V. Olson, WU prof. of genetics, "Life on the Moving Frontier — Computing and Molecular Genetics"; Garland R. Marshall, WU prof. of pharmacology, "Molecular Modeling and Drug Design"; and Ivan E. Sutherland, Sutherland, Sproull, and Associates, "Micropipelines." Simon Hall Aud. For more info., call 362-2135.

10 a.m. Oral Examination for the Doctoral Degree for Eleonora Scarpatti, Div. of Hematology and Oncology. Dissertation title: "Human Tissue Factor: Molecular Cloning, Structure and Regulation." 8841 Clinical Sciences Research Bldg.

Noon. Dept. of Cell Biology and Physiology Friday Seminar, "Calcium Oscillations, Ion Channels and Activation of Human T Lymphocytes," Richard S. Lewis, Dept. of Physiology and Biophysics, U. of California, Irvine. 4914 S. Bldg.

1:30 p.m. Oral Examination for the Doctoral Degree for Andy Dean, Dept. of Anatomy and Neurobiology. Dissertation title: "Regulation of Basal Lamina Formation by Schwann Cells." 928 McDonnell Medical Sciences Bldg.

4 p.m. Dept. of Neurology and Neurological Surgery 34th George H. Bishop Lecture in Experimental Neurology, "Neural Mechanisms in Vision," Torsten Wiesel, head, Laboratory of Neurobiology, Rockefeller U., N.Y. Moore Aud., N. Bldg., 4580 Scott Ave.

Saturday, May 13

9 a.m. Saturday Morning Neural Sciences Seminar, "The Hippocampus, the Parietal Cortex and Spatial Orientation: Recordings in Awake Animals," Bruce McNaughton, Dept. of Psychology, U. of Colorado, Boulder. Cori Aud., McDonnell Medical Sciences Bldg.

Monday, May 15

4 p.m. Dept. of Biology Seminar, "Maternal and Postzygotic DNA-binding Proteins Required for Spatial Gene Activation in the Sea Urchin Embryo," Eric Davidson, Div. of Biology, California Institute of Technology. 322 Rebstock.

4 p.m. Div. of Biology and Biomedical Sciences Special Neuroscience Seminar, "Analysis of Intercellular Messengers in Cerebellar Purkinje Cells *in vitro*," Phil Hockberger, Dept. of Physiology, Northwestern U. Medical School. 928 McDonnell Medical Sciences Bldg.

4 p.m. Div. of Biology and Biomedical Sciences Immunology Research Seminar, "The Reconstitution of Receptor-mediated Endocytosis With Broken Cell Preparations," Philip D. Stahl, Edward Mallinckrodt Jr. Prof. and head, WU Dept. of Cell Biology and Physiology. 3rd floor Aud., Children's Hospital.

Tuesday, May 16

Noon. AIDS Clinical Trials Unit Pathogenesis of AIDS Scientific Series, "Hematolymphoid Maturation and Homing in Mouse/Man," Irving Weissman, Stanford U. School of Medicine. Also sponsored by Postgraduate Medical Scientist Training Program and Dept. of Pathology. Cori Aud., McDonnell Medical Sciences Bldg.

1 p.m. Oral Examination for the Doctoral Degree for Iris Wagman Borowsky, Div. of Biology and Biomedical Sciences. Dissertation title: "Investigations Into the Neurobiological Control of Cerebral Energy Metabolism." 928 McDonnell Medical Sciences Bldg.

4 p.m. Programs in Cell and Molecular Biology Colloquium, "Quick-freeze Deep-etch Analysis of Complex Biological Structures and Events," John E. Heuser, WU prof. of cell biology and physiology. Erlanger Aud., McDonnell Medical Sciences Bldg.

Wednesday, May 17

1 p.m. Div. of Biology and Biomedical Sciences Neuroscience Luncheon Seminar, "Vestibulo-ocular Reflex During Angular and Linear Head Motion in Three-dimensional Space," Gary D. Paige, asst. prof., WU Dept. of Otolaryngology. 928 McDonnell Medical Sciences Bldg.

4 p.m. Programs in Cell and Molecular Biology Colloquium, "Electron Microscopic Analysis of Various Protein Polymer Interactions, Suggesting a General Modulatory Role for ATP," John E. Heuser, WU prof. of cell biology and physiology. Erlanger Aud., McDonnell Medical Sciences Bldg.

Thursday, May 18

9:30 a.m. Dept. of Internal Medicine Grand Rounds 13th Annual I. Jerome Flance Visiting Professor Lecture, "Idiopathic Pulmonary Fibrosis: Diagnosis, Staging and Management," Talmadge E. King Jr., assoc. prof. of medicine, U. of Colorado Health Sciences Center. Clopton Amphitheatre, Wohl Clinic Bldg.

9:30 a.m. Oral Examination for the Doctoral Degree for Tom Coogan, Dept. of Neurology and Neurological Surgery. Dissertation title: "Structure and Development of Connections Between Visual Areas of the Cerebral Cortex of the Rat." 928 McDonnell Medical Sciences Bldg.

Noon. Div. of Biology and Biomedical Sciences Neuroscience Seminar, "Neurotoxins to Characterize and Localize Sodium Channels in Neural Cells," Gary Strichartz, Harvard Medical School. 928 McDonnell Medical Sciences Bldg.

2 p.m. Oral Examination for the Doctoral Degree for Margaret R. MacDonald, Dept. of Anatomy and Neurobiology. Dissertation title: "Biosynthesis, Posttranslational Processing, and Secretion of Multiple Peptides Derived From the Substance P Precursors, a-, B-, and y-Preprotachykinin." 928 McDonnell Medical Sciences Bldg.

2 p.m. Oral Examination for the Doctoral Degree for Robert Brooks Phillips Jr., Dept. of Physics. Dissertation title: "Angular Interatomic Forces in Complex Alloy Structures: Quasicrystals and Related Crystalline Phases." 241 Compton Hall.

Friday, May 19

10:30 a.m. Dept. of Biochemistry and Molecular Biophysics Biochemical Workshop with John Markley, Dept. of Biochemistry, U. of Wisconsin, Madison. 2902 S. Bldg., 4577 McKinley.

Noon. Dept. of Cell Biology and Physiology Seminar, "Actomyosin ATPase Kinetics in Muscle Fibers," Yale Goldman, Dept. of Physiology, U. of Pennsylvania. 4914 S. Bldg.

2 p.m. Oral Examination for the Doctoral Degree for Robinna Lorenz, Dept. of Pathology. Dissertation title: "Processing and Presentation of the Self Protein Hemoglobin." 7738 Clinical Sciences Research Bldg.

4 p.m. Dept. of Biochemistry and Molecular Biophysics Seminar, "Two-dimensional NMR Approaches to Protein Structure and Function," John Markley, Dept. of Biochemistry, U. of Wisconsin, Madison. Moore Aud., N. Bldg.

MUSIC

Saturday, May 13

7 p.m. Dept. of Music Presents an Indian Vocal Concert, featuring the Bombay Sisters, vocalists. Also sponsored by Sangeetha. Simon Hall Aud. Tickets: general admission \$12; other than WU students \$6; free for WU faculty, staff and students and Sangeetha members. For more info., call 889-5581.

Saturday, May 20

8 p.m. Dept. of Music Presents a Voice Recital, featuring Brooke Elbein, soprano, accompanied by Louis Playford, pianist. Also sponsored by St. Louis Conservatory of Music. Graham Chapel. For more info., call 889-5581.

EXHIBITIONS

"Washington University Permanent Collection." Through June 30. Gallery of Art, Steinberg Hall, lower gallery. 10 a.m.-5 p.m. weekdays; 1-5 p.m. weekends. For more info., call 889-4523.

"Remembrance Now: Ford Madox Ford (1873-1939)." Through Aug. 11. Olin Library, Special Collections (fifth floor). 8:30 a.m.-5 p.m. weekdays. For more info., call 889-5495.

"B.F.A. Exhibition," featuring works by junior and senior students in the School of Fine Arts. Through May 21. Gallery of Art, Steinberg Hall, upper gallery. 10 a.m.-5 p.m. weekdays; 1-5 p.m. weekends. For more info., call 889-4523.

"Core Exhibition," featuring works by freshmen and sophomore students in the School of Fine Arts. Through May 21. Bixby Hall Gallery. 10 a.m.-4 p.m. weekdays; 1-5 p.m. weekends. For more info., call 889-4523.

Commencement week activities

Friday, May 12

9 p.m. Punt the Books Party, senior toast. Bowles Plaza.

Saturday, May 13

7:30 p.m. Movie Night at the Rat. Umrathskeller, Umrath Hall.

11:30 p.m. Last Run to Ted Drewes. Depart Umrathskeller, Umrath Hall.

Sunday, May 14

11:30 a.m.-1 p.m. Senior Champagne Brunch. Sponsored by the Alumni Board of Governors and Student Alumni Relations Committee. La Cuisine, Wohl Center.

1:15 p.m. Senior Day at the Ballpark. St. Louis Cardinals vs. Cincinnati Reds. Busch Stadium.

Monday, May 15

8 a.m. Rafting on the River. Buses depart Mallinckrodt, front entrance.

Tuesday, May 16

8:30 a.m.-5 p.m. Cap and Gown Pick-up. Lambert Lounge.

3 p.m. Senior Splash Bash Barbeque and Pool Party. Millbrook Quadrangle Courtyard.

10 p.m. Hanging Out at Harpo's. Laclede's Landing.

Wednesday, May 17

8:30 a.m.-5 p.m. Cap and Gown Pick-up. Lambert Lounge.

7:30 p.m. University College Recognition Ceremony. Simon Hall Aud. Reception immediately following, Simon Courtyard.

8 p.m. School of Technology and Information Management Recognition Ceremony. Edison Theatre. Reception immediately following, Bowles Plaza. (Rain location: Schoenberg Gallery, lower level, Mallinckrodt.)

9 p.m. Live the Loop at Cicero's. Delmar Loop.

Thursday, May 18

8:30 a.m.-5 p.m. Cap and Gown Pick-up. Lambert Lounge.

10 a.m. Phi Beta Kappa Reception. Steinberg Aud.

Volunteers sought for study on older adults' preparedness for late-life

Do older adults and their children anticipate and plan for changes associated with late-life? A professor of social work at Washington University, along with a colleague at the University of Utah, is looking for volunteers who can help answer that question.

Volunteers between the ages of 60 and 65, who are married and have at least one adult child are being sought for a study of how older adults perceive future aging problems and how they think they may handle them.

Nancy Morrow-Howell, D.S.W., assistant professor at the George Warren Brown School of Social Work at Washington University, and Robert Hill, assistant professor in the Department of Educational Psychology at the University of Utah, are conducting the

MISCELLANY

Monday, May 15

5:30 p.m. WU Smoking Clinic Smoking Cessation Program Orientation. Eight-week session. Except for orientation, meetings will be held on Wednesdays at 5:30 p.m. \$50. (\$40 is refundable at the end of the program.) Sponsored by the American Lung Association and the Mo. Dept. of Health. 115 Eads Hall. For more info., call 889-6527.

Calendar Deadline

The deadline to submit items for June 1-July 6 calendar of the Washington University Record is May 19. Items must be typed and state time, date, place, nature of event, sponsor and admission cost. Incomplete items will not be printed. If available, include speaker's name and identification and the title of the event; also include your name and telephone number. Send items to Jill Weber, calendar editor, Box 1070, or by electronic mail to p72245JW at WUVMC.

11 a.m. Phi Beta Kappa Initiation Ceremony. Steinberg Aud.

2:30 p.m. Eliot Honors Convocation for honor students, their parents and guests. Honors address: "The University, the Spaceship Earth, the Class of 1989," James F. Jones Jr., chair and prof., Dept. of Romance Languages and Literatures. Student address: "Time: The Second Hand/Calendar Paradox," Joshua Gordon, senior biology major. Field House.

5 p.m. School of Engineering Recognition Ceremony. Edison Theatre.

8 p.m. College of Arts and Sciences Recognition Ceremony and Reception. Brookings Quadrangle. (Rain location: Field House.)

Friday, May 19

8:30 a.m. Commencement in Brookings Quadrangle. (Rain location: 10 a.m. at The Arena, 5700 Oakland Ave.) Immediately following the Commencement exercises, the deans of the various divisions will be holding a series of receptions where diplomas will be individually distributed. Brunch will be available for members of the graduating class, their families and friends. Reception locations: **College of Arts and Sciences:** north side of Graham Chapel. (Rain location: Holmes Lounge.) **Graduate School of Arts and Sciences:** Women's Bldg. Lounge. **University College:** Women's Bldg. Lounge. **School of Engineering and Applied Science:** south side of Lopata Hall. (Rain location: Lopata Gallery.) **School of Technology and Information Management:** south patio of Prince Hall. (Rain location: Umrath Lounge.) **School of Architecture:** Givens Hall. **John M. Olin School of Business:** diploma ceremony in the Field House; reception in Simon Hall. **School of Fine Arts:** Steinberg Aud. **George Warren Brown School of Social Work:** reception in Brown Lounge; diploma ceremony in Graham Chapel. **School of Law:** diploma ceremony in Graham Chapel; reception in Mudd Law Bldg., informal lounge. **School of Dental Medicine:** Breckenridge Frontenac Hotel. **Program in Occupational Therapy:** Embassy Suites Hotel. **Health Administration Program:** diploma ceremony in Moore Aud.; reception in Olin Hall, Medical School Campus. **School of Medicine:** Chase Hotel.